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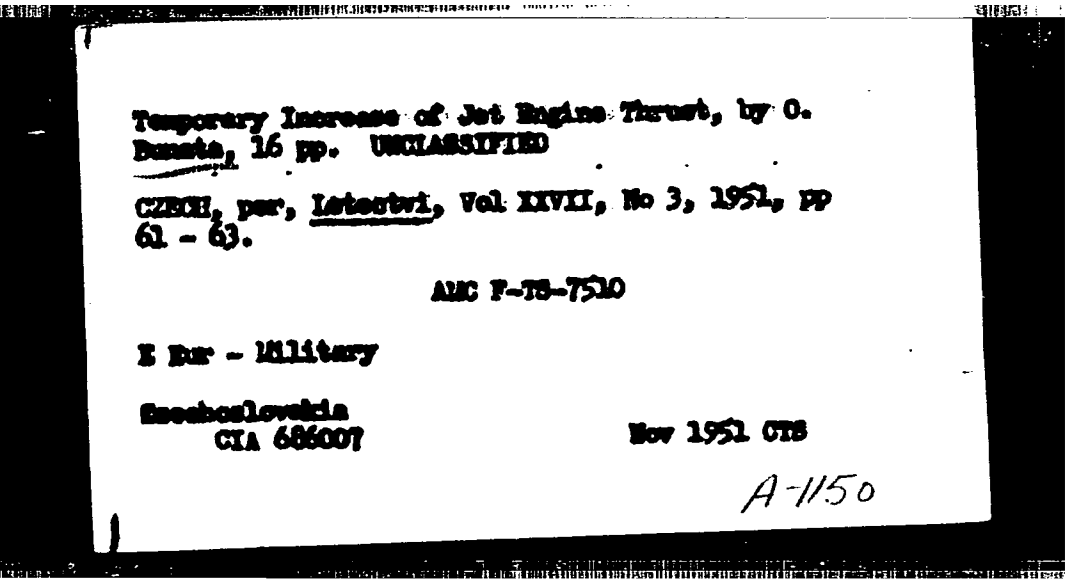

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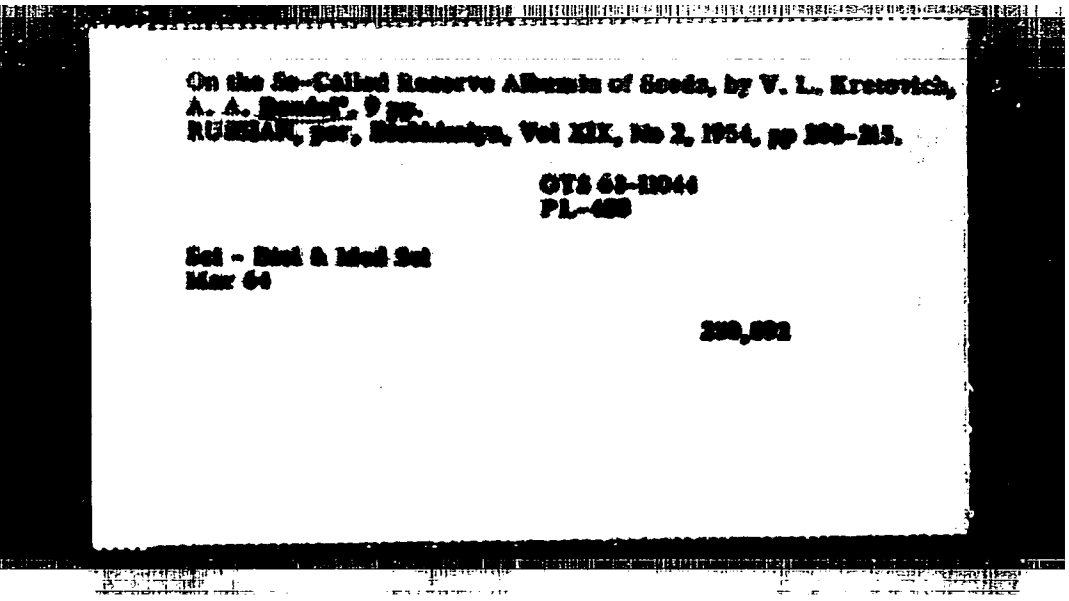

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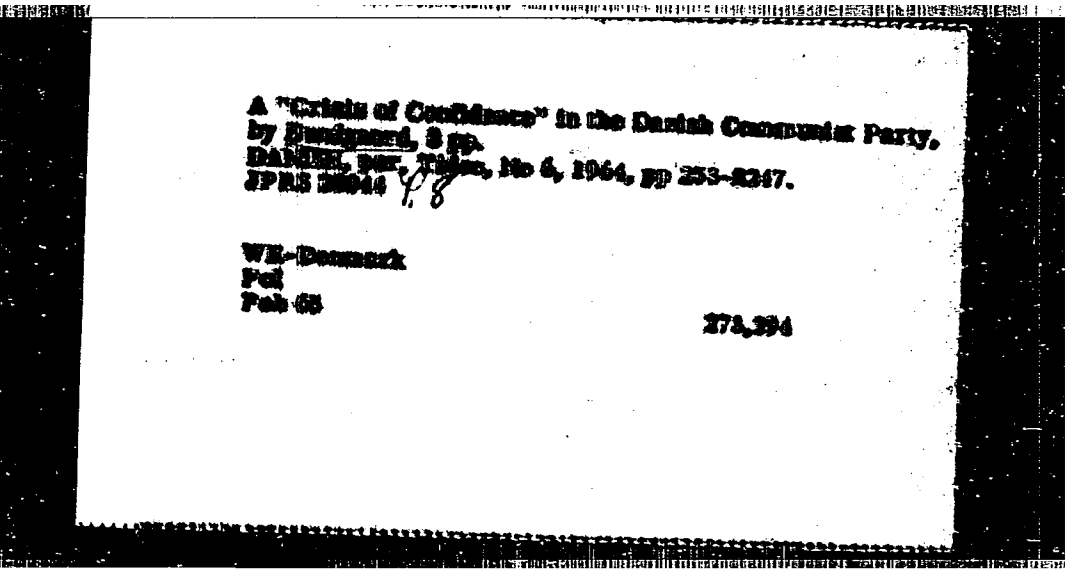

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Order from LC or SLA mi$2.40, ph$3.30 61-13171

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(Chemistry--Physical, TT, v. 5, no. 6) (over)

61-13171

1. Stainless steel--Corrosion
2. Nickel--Corrosion
3. Sulfuric acid--Corrosive effects
4. Gamma radiation--Chemical effects
5. Electrochemistry

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II. Kolotyrkin, Ya. M.
III. Tyurikov, G. S.
IV. DSIR LLU M.1847
V. Atomic Energy Research Establishment (Gt. Brit.)

Office of Technical Services

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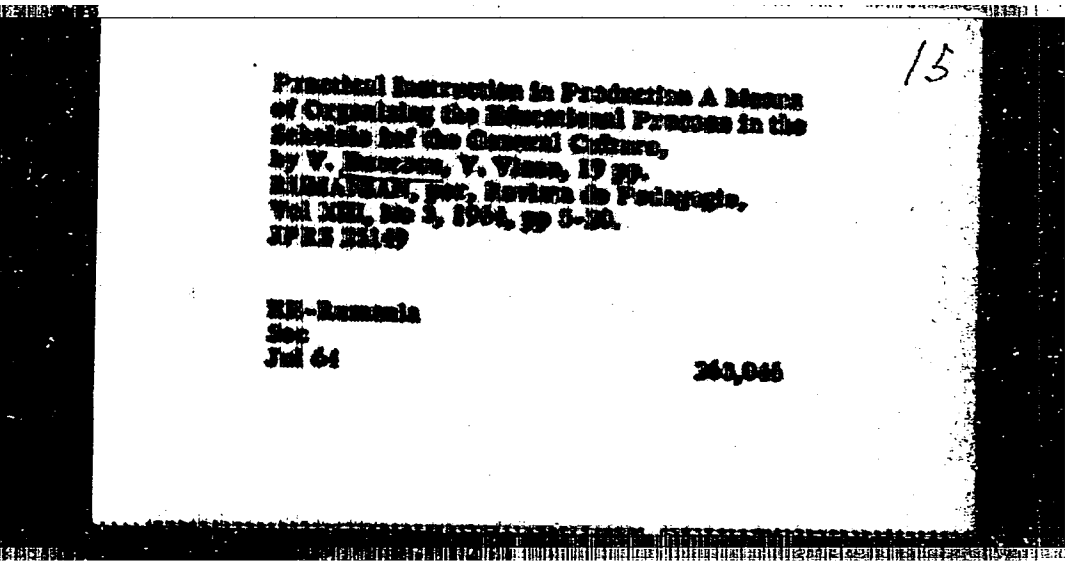

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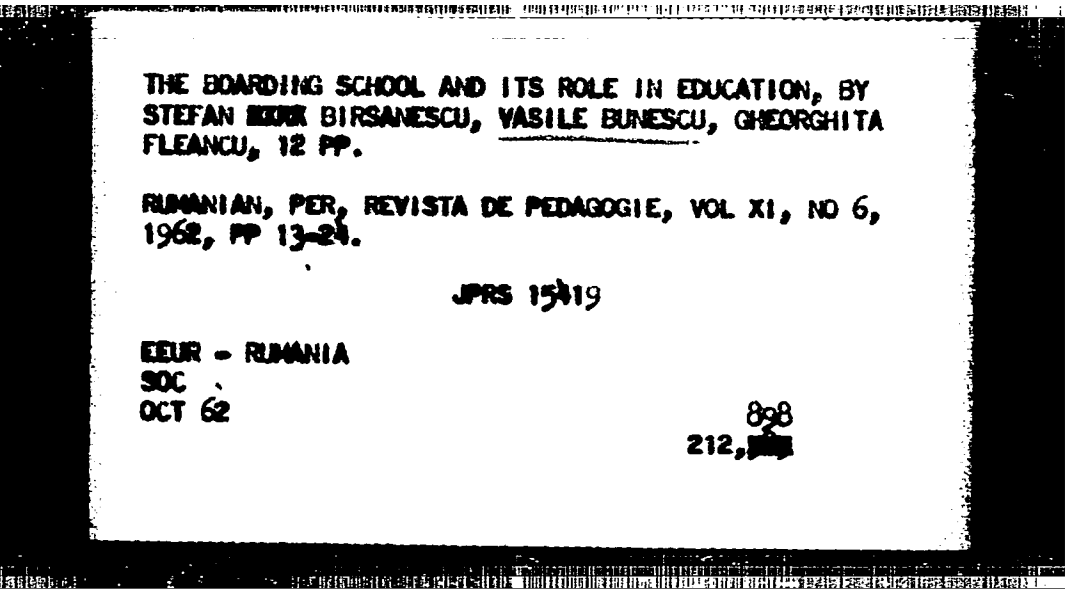

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SLA Tr 57-2486

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(UT-6755)
Forensic Psychiatry, by A. N. Buneyev, 6 pp.

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CIA/X-1813

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Study of Alkali-Free and Low-Alkali Glass Composition and of the Technology of Their Manufacture and Working, by I. D. Tykachinskiy, O. K. Botvinkin, L. I. Buneyeva, R. S. Levina, M. V. Okhotin, Yu. V. Rogozhin, Z. M. Syritskaya, 6 pp.

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Vapour Pressure Experiments on Fe-Cr Alloys,
by Bungardt, Preisendanz.

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pp 715-724.

Tr 618

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The Effect of Chromium on Carbon Activity in the 67
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pp 999-1007
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K Bungardt

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Properties of Boron-Containing Stainless Steel for Nuclear Reactor Construction, by K. Burgardt, R. Oppenheim.
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The Effect of Boron on the Precipitation Processes and Creep Behaviour of Niobium-Containing Austenitic Chromium-Nickel-Molybdenum Steels, by K. Bungardt, G. Lennartz.

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BISI 3439

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Sci - M/M
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Effect of Heating Under Reduced Pressure on Steel Properties of Steel, by K. Bungardt.

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HB 5864

Sci-M/M

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APPROVED FOR RELEASE: 08/14/ 2001 CIA-RDP84-00581R000100080007-2

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Bungardt, Karl and Weigand, Hans-Hermann.
INFLUENCE OF HEAT TREATMENT ON SOME PROPERTIES OF CORROSION RESISTANT NICKEL-MOLYBDENUM ALLOYS (Einfluss der Wärmebehandlung auf Einige Eigenschaften von Korrosionsbeständigen Nickel-Molybdän-Legierungen). [1960] [19]p. 9 refs.
Order from SLA mi$2.40, ph$3.30 61-10566

Trans. of Z[eitschrift für] Metallkunde (West Germany) 1959, v. 50 [no. 1] p. 11-18.

The effect of a heat treatment on microstructure, hardness, strength and corrodibility was tested with four corrosion resistant nickel-molybdenum alloys (with and without an addition of chromium). It was found that a change in these properties depends on the kind of precipitate which is formed during the heat treatment. The results are discussed. (Author)

(Metallurgy--Structural, TT. v. 5, no. 7)

61-10566

1. Molybdenum-nickel alloys--Heat treatment
I. Bungardt, K.
II. Weigand, H.

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APPROVED FOR RELEASE: 08/14/ 2001 CIA-RDP84-00581R000100080007-2

APPROVED FOR RELEASE: 08/14/ 2001 CIA-RDP84-00581R000100080007-2

EFFECT OF MOLYBDENUM OF STRUCTURE, HARDNESS AND IMPACT STRENGTH OF NIOBIUM-CONTAINING CHROMIUM-NICKEL AUSTENITIC STEELS AFTER ANNEALING AT TEMPERATURES BETWEEN 650 AND 850°C, BY K. BUNGARDT, G. LENNARTZ.

GERMAN, PER, ARCHIV FUER EISENHUTTENWESEN, VOL XXXIII, APR 1962, PP 251-259.

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BISI 2876

Sci - Engr
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The Effect of Chromium, Molybdenum, Tungsten and Vanadium on the Properties of 0.3% C Steels, by K. Bungardt, [illegible] O. Mulders, G. Lennartz.

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BISI 2677

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Aptitude of the Static Torsion Test for Determining the Toughness of Very Hard Steels. II,
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GERMAN, per, Stahl und Eisen, Vol LXXXI,
11 May 1961, pp 670-675.

BISI 2718

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DAMPING CAPACITY AND MODULUS OF RIGIDITY OF ZIRCONIUM AND ZIRCONIUM-HYDROGEN ALLOYS. [1960] 16p.
Order from ATS $26.95 ATS-79M45G

Trans. of Z[eitschrift für] Metallkunde (West Germany) 1960, v. 51, no. 5, p. 280-289.

(Metallurgy--Nonferrous Metals, TT, v. 5, no. 5)

61-12398

1. Zirconium alloys--Mechanical properties.
I. Bungardt, K.
II. Preisendanz, H.
III. ATS-79M45G
IV. Associated Technical Services, Ind., East Orange, N. J.

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BISI 2169

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Suitability of a Static Bending Test for the Determination of Toughness of Very Hard Steels, by K. Bungardt, O. Mulders, W. Schmidt.

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Investigations on the Build-Up of the System Iron-Chromium-Carbon, by K. Bungardt, S. Kunze, E. Horn. UNCLASSIFIED

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Precipitation Processes in Titanium-Stabilized Austenitic Nickel-Chromium Steel and Their Relation to Intercrystalline Corrosion Phenomena, by K. Bungardt, G. Lennartz, 19 pp.

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Sci - Chem
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DAMPING CAPACITY INVESTIGATIONS ON IRON-CHROMIUM ALLOYS. [1957] [19]p. 28 refs.
Order from SLA $1.60 61-16319

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1956, v. 27, no. 11, p. 715-724.

DESCRIPTORS: *Iron alloys, *Chromium alloys, *Damping, Stresses.

(Metallurgy--Ferrous Metals, TT, v. 6, no. 3)

61-16319

I. Bunghardt, K.
II. Preisendanz, H.

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The Influence of Deformations at Low Temperatures on the Properties of Austenitic Stainless Steels, by K. Bungardt, R. Oppenheim, R. Scherer,

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Scientific - Min/Metals Feb 55 CTS

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The Development of Heat-Resisting Steels With High Strength at Elevated Temperature, by K. Bungardt.

GERMAN, per, Stahl und Eisen, Dusseldorf, Vol LXXIII, 1953, pp 1496-1503.

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Scientific - Minerals/Metals
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Production of Stainless Steels in the Electric Arc Furnace, Using Oxygen, by K. Bungardt, E. Pakulla, K. Tascha.

GERMAN, biwk per, Stahl und Eisen, Vol LXXII, 1952, No 5, pp 245-255.

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Influence of Composition of Stainless Steels Upon Resistance to Sulfuric and Hydrochloric Acids, by K. Bungardt, H. J. Rocha.

GERMAN, per, Werkstoffe und Korrosion, Vol III, No 5-6, 1952, pp 209-211.

Brutcher Trans No 2963

Scientific - Metallurgy, steel, metals, chemistry, sulfuric acid, hydrochloric acid

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Growth of Cast Iron for Piston Rings at Temperatures of up to 1300° F., by F. Bollenrath, K. Bungardt.

GERMAN, per. Stahl Und Eisen, Vol LVIII, 1938.

Brutcher Tr No 907

Scientific - Min/Metals $1.20

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(ORNL-tr-2627) INVESTIGATION OF 475°-EMBRITTLEMENT OF IRON-CHROME ALLOYS. Bungardt, Kark; Spyra, Wolfgang. Translated for Oak Ridge National Lab., Tenn., from Arch. Eisenhuettenw.; 27: No. 12, 777-86(1956). 1720 25p. Dep. NTIS.

metallurgy; physics (solid-state); translations 11F, 20L

MN-25 P NSA

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Order from SLA $3.60 62-18155

Trans. of Stahl und Eisen (West Germany) 1950, v. 70, no. 14, p. 582-596 (Verein Deutscher Eisenhüttenleute (West Germany). Berichte-712).

DESCRIPTORS: *Stainless steel, Rolling mills, *Corrosion inhibition, Iron alloys, Chromium alloys, Steel, Corrosion-resistant alloys, Corrosion, Corrosion research.

(Metallurgy--Corrosion, TT, v. 9, no. 5)

62-18155

I. Bungardt, K.
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GERMAN, per, Stahl und Eisen, Vol LXXVIII, No 16, 1958, pp 1119-1126.

SLA 59-10161

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Diffusion of Mg in Al with Varying Degrees of Purity, by W. Bungaedt.
GERMAN, pub, Z. Metallkde., 32, 1940, pp 360-362.
*NBS TT 70-57329

Sci-Mat
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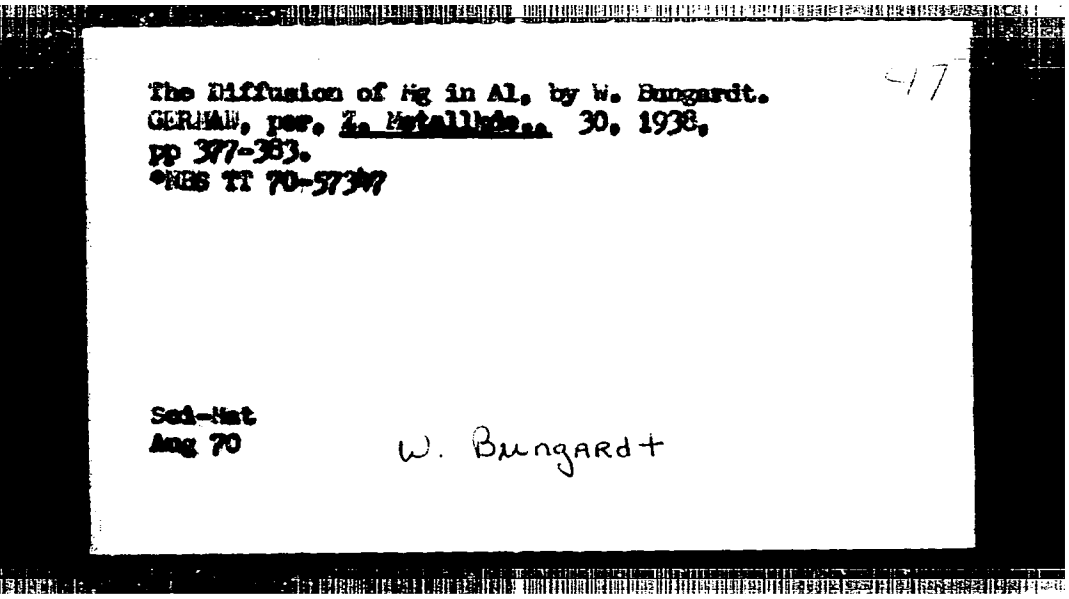

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pp 377-383.
*NBS TT 70-57307

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Bungardt, W. and Kallenbach, R.
THE RELATIONSHIP BETWEEN THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF ALUMINUM AND MAGNESIUM ALLOYS. [1963] [20p] (figs tables omitted omitted) 35refs
Order from SLA $1.60 TT-63-20507

Trans. of Metall (West Germany) 1950, v. 4, p. 317-321, 365-369. (Abstract available)

DESCRIPTORS: *Aluminum alloys, *Magnesium alloys, Thermal conductivity, Electrical conductance.

Recent literature data on the electrical and thermal conductivities of light metals were investigated for the relationship between the two conductivities from the standpoint of whether it is practically possible to replace the measurement of the heat conductivity by the simpler measurement of the electrical conductivity (Metallurgy--Light Metals, TT, v. 11, no. 4) (over)

TT-63-20507

I. Bungardt, W.
II. Kallenbach, R.

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Air Furnaces for Conducting Creep Tests, by F. Bollenrath, W. Bungardt and H. Cornelius, 22pp.

GERMAN, per, Arch Eisenhuttenwesen, Vol X, No 12, Jun 1937, pp 555-562.

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The Recrystallization Properties of Aluminum-Magnesium Alloys and Their Effects on the Corrosion Characteristics, by W. Bungardt, H. Rohde, 10 pp.

GERMAN, Berlin-Adlershof, Deutsche Versuchsanstalt fur Luftfahrt, Feb 1937.

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Influence of Alloy Additions Upon Some Properties of Heat Resisting Iron-Aluminum Alloys, by W. Bungardt, H. Cornelius.

GERMAN, Archiv Eisenhuttenwesen, Vol XIII, 1939-1940, pp 539-542.

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The Scaling Resistance of Steels Alloyed With Vanadium, by H. Cornelius, W. Bungardt.

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Scientific - Minerals/Metals

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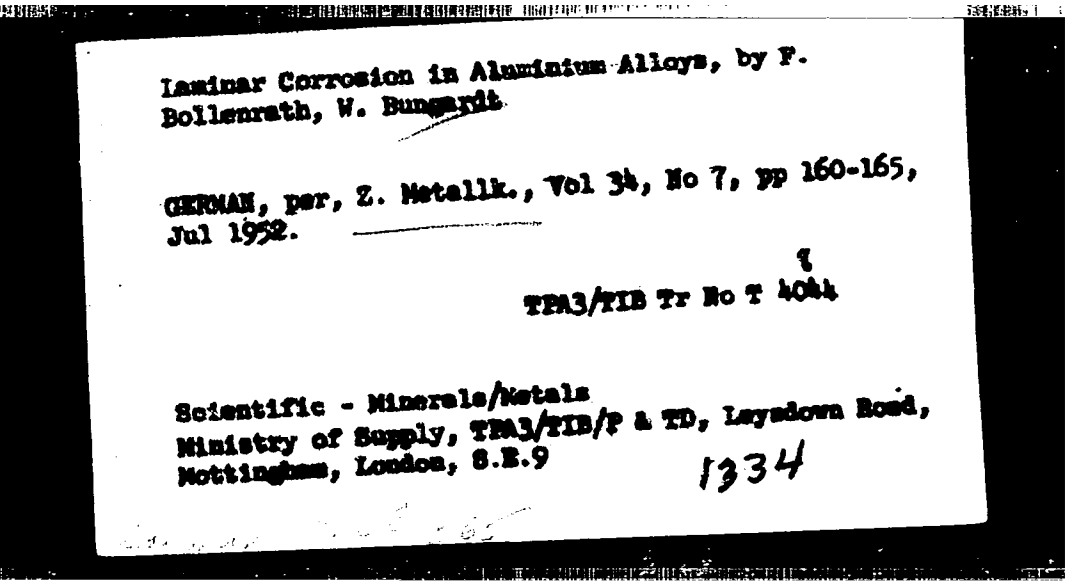

Laminar Corrosion in Aluminium Alloys, by F. Bollenrath, W. Bungardt

GERMAN, per, Z. Metallk., Vol 34, No 7, pp 160-165, Jul 1952.

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Ministry of Supply, TPA3/TIB/P & TD, Leysdown Road, Nottingham, London, S.E.9

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